

ARINC AQP SCORECARD
TEST RESULTS/DATA

TEST_ID 25.001

Airline: [REDACTED]

Code: [REDACTED]

AQP Phase: 3

<input type="checkbox"/> VDLM0 (POA) Tested	<input type="checkbox"/> Classic Aero Satcom Tested	<input type="checkbox"/> AOIP (ACARS Over IP) Tested
<input type="checkbox"/> VDLM0 (POA) Capable	<input type="checkbox"/> Classic Aero Satcom Capable	<input type="checkbox"/> AOIP (ACARS Over IP) Capable
<input type="checkbox"/> VDLMA (POA) Tested	<input type="checkbox"/> SB-S (Swift Broadband Safety) Tested	<input checked="" type="checkbox"/> HFDL Tested
<input type="checkbox"/> VDLMA (POA) Capable	<input type="checkbox"/> SB-S (Swift Broadband Safety) Capable	<input checked="" type="checkbox"/> HFDL Capable
<input type="checkbox"/> VDLM2 (AOA) Tested	<input type="checkbox"/> SB-S 2 (Enhanced SB-S) Tested	<input type="checkbox"/> HF NEXT Tested
<input type="checkbox"/> VDLM2 (AOA) Capable	<input type="checkbox"/> SB-S 2 (Enhanced SB-S) Capable	<input type="checkbox"/> HF NEXT Capable
<input type="checkbox"/> VDLM2 (ATN) Tested	<input type="checkbox"/> Iridium (Block 1) Tested	<input type="checkbox"/> OTHER Tested
<input type="checkbox"/> VDLM2 (ATN) Capable	<input type="checkbox"/> Iridium (Block 1) Capable	<input type="checkbox"/> OTHER Capable
<input type="checkbox"/> VDLMF Tested	<input type="checkbox"/> Iridium CERTUS Tested	
<input type="checkbox"/> VDLMF Capable	<input type="checkbox"/> Iridium CERTUS Capable	

Test Engineers' Initials: [REDACTED]

AQP Type: Test

Reference: [REDACTED]

Test/Evaluation

Test Dates: From:

1/7/2025

To:

1/16/2025

Tested Configuration:

Manufacturer	Spec	Model	Part #
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[REDACTED]			
[REDACTED]			
OTHER:			
[REDACTED]			

Applicable Aircraft: [REDACTED]

VHF Status: [REDACTED]

HF NEXT Status: [REDACTED]

SATCOM Status: [REDACTED]

IRIDIUM Cert Status: [REDACTED]

Letter Sent: [REDACTED]

HFDL Status: Failed

SBS Status: [REDACTED]

IRIDIUM Status: [REDACTED]

Notes: [REDACTED]

OTHER Media Status: [REDACTED]

SBS2 Status: [REDACTED]

ACARS Over IP Status: [REDACTED]

CMU HARDWARE

CMU AQP Status:

Service Functional Capability Level:

HW_Revision

VDL Multi Frequency

Co Channel Compliant

Multi Bearer SATCOM

OTHER

MU SOFTWARE PART NUMBERS

Comments:

HFDL HARDWARE

HFDL AQP Status: Failed

Vendor: AEC: Unit Model: Hardware Part Number: Software Part Number:

Comments:

Airline: [REDACTED]

Code: [REDACTED]

AQP Phase: 3

<input type="checkbox"/> VDLMO (POA) Tested	<input type="checkbox"/> Classic Aero Satcom Tested	<input type="checkbox"/> AOIP (ACARS Over IP) Tested
<input type="checkbox"/> VDLMO (POA) Capable	<input type="checkbox"/> Classic Aero Satcom Capable	<input type="checkbox"/> AOIP (ACARS Over IP) Capable
<input checked="" type="checkbox"/> VDLMA (POA) Tested	<input type="checkbox"/> SB-S (Swift Broadband Safety) Tested	<input type="checkbox"/> HFDL Tested
<input checked="" type="checkbox"/> VDLMA (POA) Capable	<input type="checkbox"/> SB-S (Swift Broadband Safety) Capable	<input type="checkbox"/> HFDL Capable
<input checked="" type="checkbox"/> VDLM2 (AOA) Tested	<input type="checkbox"/> SB-S 2 (Enhanced SB-S) Tested	<input type="checkbox"/> HF NEXT Tested
<input checked="" type="checkbox"/> VDLM2 (AOA) Capable	<input type="checkbox"/> SB-S 2 (Enhanced SB-S) Capable	<input type="checkbox"/> HF NEXT Capable
<input type="checkbox"/> VDLM2 (ATN) Tested	<input type="checkbox"/> Iridium (Block 1) Tested	<input type="checkbox"/> OTHER Tested
<input type="checkbox"/> VDLM2 (ATN) Capable	<input type="checkbox"/> Iridium (Block 1) Capable	<input type="checkbox"/> OTHER Capable
<input checked="" type="checkbox"/> VDLMF Tested	<input type="checkbox"/> Iridium CERTUS Tested	
<input checked="" type="checkbox"/> VDLMF Capable	<input type="checkbox"/> Iridium CERTUS Capable	

Test Engineers' Initials: [REDACTED]

AQP Type: Test

Reference: [REDACTED]

Test/Evaluation

Test Dates: From: 1/20/2025 To: 1/30/2025

Tested Configuration:

[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

Applicable Aircraft: [REDACTED]

VHF Status: Pass

HF NEXT Status: [REDACTED]

SATCOM Status: [REDACTED]

IRIDIUM Cert Status: [REDACTED]

Letter Sent: [REDACTED]

HFDL Status: [REDACTED]

SBS Status: [REDACTED]

IRIDIUM Status: [REDACTED]

OTHER Media Status: [REDACTED]

SBS2 Status: [REDACTED]

ACARS Over IP Status: [REDACTED]



Collins Aerospace

TEST ID: 25.003

PHASE 3 AQP TEST RESULTS

- VHF TESTED?
- VHF CAPABLE?
- VDLMA TESTED?
- VDLMA CAPABLE?
- SB-S TESTED?
- SB-S CAPABLE?

- HF TESTED?
- HF CAPABLE?
- AOA TESTED?
- AOA CAPABLE?
- AoIP TESTED?
- AoIP CAPABLE?

- SATCOM TESTED?
- SATCOM CAPABLE?
- ATN TESTED?
- ATN CAPABLE?
- SB-S 2.0 TESTED?
- SB-S 2.0 CAPABLE?

IRIDIUM TESTED?
 IRIDIUM CAPABLE?
 VDLMF TESTED?
 VDLMF CAPABLE?

Airline/Customer:

Initial/Retest:

Test Engineer: [REDACTED]

Test Dates:

From: 1/20/25

To: 1/30/25

TESTED CONFIGURATION

Applicable Aircraft: [REDACTED]

Notes:

VHF AQP TEST RESULTS

OOOI EVENTS

<u>DESCRIPTION</u>	<u>REQUIREMENTS</u>	<u>Y/N</u>
<u>Message Sequencing</u>	Messages are downlinked in a logical order according to airline documentation.	_____
<u>Message Buffering</u>	Messages are buffered when not acknowledged. and retransmitted when radio contact resumes.	_____
<u>Timers</u>	OFF/ON events are delayed approximately 10 seconds.	_____
<u>Filters</u>	IN/OUT events are delayed approximately 2 seconds.	_____
<u>Source</u>	Source of OOOI events.	_____
<u>OOOI Labels</u>	If Digital 429, list peripheral(s). MU uses standard QA-QV OOOI labels or unique. ON/OFF with Dept. & Dest.	_____
Comments: _____		

RETRANSMISSION INTERVAL

<u>DESCRIPTION</u>	<u>REQUIREMENTS</u>	<u>DATA: Time Between Transmissions Seconds)</u>						
		<u>Test #/Xmission</u>	<u>1&2</u>	<u>2&3</u>	<u>3&4</u>	<u>4&5</u>	<u>5&6</u>	<u>P/F</u>
<u>Retransmissions</u>	Downlinks are retransmitted 3-5 times at randomly spaced intervals from 10 to 25 seconds before NOCOMM is displayed	1	13	19	12			P
		2	17	14	12			P
		3	15	16	23			P
		4	12	14	21			P

PREKEY TIME

<u>DESCRIPTION</u>	<u>REQUIREMENTS</u>	<u>DATA</u>
<u>Unmodulated Carrier</u>	1 millisecond maximum	
<u>Transmission Time Prekey</u>	85 milliseconds maximum	
<u>Programmable Prekey</u>	Is prekey programmable?	

Comments: _____

VHF AQP TEST RESULTS

MISCELLANEOUS

<u>DESCRIPTION</u>	<u>REQUIREMENTS</u>	<u>DATA (P/F)</u>
<u>Protocol and Embedded ACKs</u>	Avionics utilizes UBI/DBI protocol. If yes, protocol works correctly. Downlink retransmissions contain the same MSN before and after a NOCOMM condition. Avionics processes uplink with the same UBI within 10 minutes as a duplicate uplink. An embedded ACK to an uplink is changed to an embedded NAK in subsequent downlink retransmissions. Avionics properly handles embedded ACKS in uplink messages. Avionics provides embedded ACKS in downlink messages.	P P P P P P P
Comments: _____		
<u>U/L & D/L Multiblock Processing</u>	Avionics accepts and prints multiblock messages. Avionics accepts and displays multiblock messages. “INCOMPLETE MESSAGE” advisory given when subsequent blocks not received in 1.5 minutes. If part of a multiblock downlink has been acknowledged, and the avionics goes NOCOMM, the entire multiblock message is resent when COMM is regained.	P P P P
Comments: _____		
<u>Tracker Message</u>	Tracker Message interval (minutes). Intervals are at 10 minutes and only in the absence of other downlinks. NOT sent while the aircraft is on the ground. Tracker Messages are not queued while the avionics is in voice mode. Tracker Timer reset by uplink ACK to a downlink.	<u>10:00</u> P P P P
Comments: _____		
<u>Contact Message</u>	Contact Message interval. Sent only if no uplink traffic is heard for a defined period of time. NOT sent while the aircraft is on the ground. Contact/Tracker used on alternate (autotune) frequency?	<u>2:30</u> P P P
Comments: _____		

VHF AQP TEST RESULTS

CHANNEL ACCESS

<u>DESCRIPTION</u>	<u>REQUIREMENTS</u>	<u>DATA (P/F)</u>
<u>Channel Access Algorithm</u>	Will not transmit while receiving a 1200 Hz MSK modulated signal. Will not transmit while receiving a 2400 Hz MSK modulated signal. Will not transmit while receiving a random (1200/2400) MSK modulated signal. Will not transmit while receiving actual traffic with 75ms prekey. Must check for channel occupancy before transmitting an ACK to an uplink.	_____ _____ _____ _____ _____ _____
<u>Carrier Sense Multiple Access</u>	The avionics implements a non-persistent CSMA algorithm.	_____

Comments: _____

AGENCY CODE, REGISTRATION NUMBER, AND FLIGHT NUMBER

<u>DESCRIPTION</u>	<u>REQUIREMENTS</u>	<u>DATA (P/F)</u>
<u>Default Agency</u>	Enter the default agency code source and list the agency code.	APMFMS
<u>Agency Code Chars.</u>	Will the avionics accept numeric characters for the agency code?	P
<u>Default Reg #</u>	Enter the default registration source and list the registration number.	APM
<u>Flight Number</u>	Flight numbers less than four characters are padded with leading zeros.	P
<u>AN/FI Address</u>	Will the avionics accept alpha characters for the flight number? Avionics supports both AN and FI addressing.	P P

Comments: _____

ARINC EUROPEAN BASE FREQUENCY – 131.825 MHz

Is 131.825 present and enabled in the scan table?	P
Are tracker messages enabled on 131.825?	P
Are contact messages enabled on 131.825?	P
Does the avionics respond properly when autotune received while on 131.825?	P

VHF AQP TEST RESULTS

MULTI-MEDIA FUNCTIONS

<u>DESCRIPTION</u>	<u>REQUIREMENTS</u>	<u>DATA P/F</u>
<u>Preferred Media & Simultaneous Media</u>	MU uses VHF as preferred media and only communicates via SATCOM/HFDL when VHF is unavailable or when responding to an unsolicited SATCOM/HFDL U/L. MU always attempts to complete on media where originated.	_____
<u>Multiblock D/L Handling</u>	The MU correctly handles multiblock retransmission when changing media. Entire message is retransmitted. Original MSN is retained.	_____
<u>VHF to SATCOM/HF</u>	The avionics completes failed VHF transmissions on SATCOM/HF media and alerts the crew of the VHF NOCOMM conditions. Avionics sends downlinks via SATCOM/HF when In voice mode (if available).	_____
<u>SATCOM/HF to VHF Transitions</u>	The avionics monitors the available VHF frequencies and attempts to re-establish the VHF media (Label QO, SA, etc.).	_____
<u>Automatic Link Establishment</u>	MU automatically sends a QO downlink (followed by SA). via SATCOM whenever the SDU logs on. Same as VHF & HF.	_____
<u>UBI/DBI Handling</u>	The MU correctly maintains separate and independent UBI/DBI's for the VHF, SATCOM and HF links.	_____

622/623 PROTOCOL & FUNCTIONS

<u>D/L Message Format</u>	ATS messages are downlinked in proper format.	_____
<u>U/L Message Format</u>	Uplinks are checked for ATS format compliance.	_____
<u>CRC</u>	Downlinks contain proper CRC values.	_____
	Uplinks are tested for proper CRC values.	_____
	U/L messages w/o CRC or improper CRC are rejected.	_____
	Avionics accepts U/L's with or without ending CR/LF chars.	_____
<u>ATS U/L Response</u>	MU provides readback responses where appropriate (i.e., PDC Accept/Reject).	_____
<u>Multiblock ATS Messages</u>	MU properly handles multiblock ATS messages.	_____
<u>Multiblock Prioritization</u>	Avionics supports nesting of higher priority single block uplinks.	P
<u>Comments:</u> _____	Avionics supports nesting of higher priority multiblock uplinks.	P

VHF AQP TEST RESULTS

STUCK CARRIER

<u>DESCRIPTION</u>	<u>REQUIREMENTS</u>	<u>DATA (P/F)</u>
Stuck Transmitter	Avionics does not exhibit any stuck transmitter as a result of power cycling or related testing.	_____

AUTOTUNE FUNCTIONS

<u>DESCRIPTION</u>	<u>REQUIREMENTS</u>	<u>Label #</u>	<u>Data (P/F)</u>
<u>ACK to Command</u>	Avionics provides ACK to autotune command before changing frequency.		P
<u>Channel Changeover</u>	Avionics changes to frequency specified by Autotune command.		P
<u>Link Tests on New Frequency</u>	Avionics immediately conducts at least 3 link tests on the new frequency.	Q0 4	P
<u>Return to Base Frequency and Conduct Link Test</u>	Avionics returns to the base frequency immediately conducts at least 3 tests to re-establish communication.	Q0 4	P
<u>Autotune to an Autotune</u>	If the avionics was autotuned and a subsequent autotune is received, the avionics will correctly retune and return to the base frequency if unable to establish or maintain communication.		P
Multiblock Completed After a Nested Autotune:			
	Downlink w/o embedded ACK in autotune	P	with embedded ACK
	Uplink w/o embedded ACK in autotune	P	with embedded ACK
<u>Power Interruption</u>	Avionics recalls last autotuned frequency if 115VAC power is interrupted (>1 min.) and 28VDC is retained. For how long will MU recall last autofreq with Both 115VAC and 28VDC removed?	_____	P
<u>Frequency Tuning</u>	Will the avionics tune between 118.000 MHz and 136.975 MHz?	_____	

AOA AQP TEST RESULTS

<u>DESCRIPTION</u>	<u>REQUIREMENTS</u>	<u>DATA P/F</u>
<u>Basic Link Establishment</u>	Avionics correctly implements the basic link establishment.	P
<u>Intramedia Switch and Debounce Timers</u>	Scenario 1 From Base to AOA < 10 min Scenario 2 From Base to AOA > 10 min Scenario 3 From Autotune to AOA < 10 min Scenario 4 From Autotune to AOA > 10 min	P P P P
<u>Voice/Data Mode</u>	Scenario 1: Voice mode < 4 min Scenario 2: Voice mode > 4 min < 10 min Scenario 3: Voice mode > 10 min	P P P
<u>Handoff Sequence</u>	Scenario 1 HO Signal Level Scenario 1A HO Signal Level Different DSP Scenario 1B HO Unanswered Scenario 1C HO Unanswered Different DSP Scenario 1D Uplink from Previous GS Scenario 2 HO attempt after Downlink Failure Scenario 2A HO attempt after Downlink Failure Different DSP Scenario 5 HO attempt to PECT Scenario 6 HO Time Out Scenario 6A HO Time Out Different DSP	P N/A P N/A P P N/A P P N/A
<u>Multimedia</u>	Scenario 1 Scenario 2 Scenario 3	N/A N/A N/A
<u>Maximum Delay Between Transmissions</u>		P
<u>Message Assembly Timer</u>	Scenario 1 Scenario 2 Scenario 3	P P P

AOA AQP TEST RESULTS

<u>DESCRIPTION</u>	<u>REQUIREMENTS</u>	<u>DATA P/F</u>
<u>UBI Reset Timer</u>		_____
<u>VAC1 Counter and VAT7 Timer</u>		P
<u>Retune and Autotune</u>	POA to AOA Retune to CSC POA to AOA Retune to Alternate Frequency POA to AOA Retune Ignore Debounce Timer POA to AOA Retune Nested in Downlink POA to AOA Retune Nested in Uplink POA to AOA Retune with GS ICAO Address	P P P P P P
	AOA to POA Autotune Base Frequency AOA to POA Autotune Alternate Frequency AOA to POA Autotune Debounce Timer AOA to POA Autotune Nested in Downlink AOA to POA Autotune Nested in Uplink AOA to POA Autotune Fall to POA Base	P P P P P P

Comments:_____

Criss-Cross Uplink

Scenario 1

P

Scenario 2

P

ICAO Addressing

Comments:_____

VDL MULTI-FREQUENCY AQP TEST RESULTS

Test	Results	Pass	Fail	Comments
GRAIHO Test 1 – CSC to AltFreq	Avionics retuned to 136.750 _____ Avionics handed off to Radio B _____	P	—	—
GRAIHO Test 2 – AltFreq to CSC	Avionics retuned to 136.975 _____ Avionics handed off to Radio A _____	P	—	—
GRAIHO Test 3 – AltFreq1 to AltFreq2	Avionics retuned to 136.750 _____ Avionics handed off to Radio B _____ Avionics retuned to 136.800 _____ Avionics handed off to Radio C _____ Avionics retuned to 136.975 _____ Avionics established link to Radio A _____	P	—	—
GRAIHO Test 4 – to 1 st GS in RGSL	Avionics retuned to 136.750 _____ Avionics handed off to Radio B _____	P	—	—
GRAIHO Test 5 – to last GS in RGSL	Avionics retuned to 136.750 _____ Avionics failed HO to non-existent Radio 1 _____ Avionics failed HO to non-existent Radio 2 _____ Avionics handed off to Radio B _____	P	—	—
GRAIHO Test 6 – w/ all optional parameters	Avionics retuned to 136.750 _____ Avionics handed off to Radio B _____	P	—	—
GRAIHO Test 7 – successive GRAIHOs	Avionics retuned to 136.750 _____ Avionics handed off to Radio B _____ Avionics retuned to 136.975 _____ Avionics handed off to Radio A _____	P	—	—
GRAIHO Test 8 – normal AIHO after GRAIHO	Avionics retuned to 136.750 _____ Avionics handed off to Radio B _____ Avionics handed off to Radio C _____	P	—	—
GRAIHO Test 9 – fallback to CSC after GRAIHO	Avionics retuned to 136.750 _____ Avionics handed off to Radio B _____ Avionics retuned to 136.975 _____ Avionics established link to Radio A _____	P	—	—
GRAIHO Test 11 – GRAIHO failure; fall back to CSC	Avionics retuned to 136.750 _____ Avionics failed HO to non-existent Radio 1 _____ Avionics retuned to 136.975 _____ Avionics established link with Radio A _____	P	—	—
GRAIHO Test 12 – GRAIHO failure to all GSs in RGSL; fallback to CSC	Avionics retuned to 136.750 _____ Avionics failed HO to non-existent Radio 1 _____ Avionics failed HO to non-existent Radio 2 _____ Avionics failed HO to non-existent Radio 3 _____ Avionics failed HO to non-existent Radio 4 _____ Avionics failed HO to non-existent Radio 5 _____ Avionics retuned to 136.975 _____ Avionics established link with Radio A _____	P	—	—

VDL MULTI-FREQUENCY AQP TEST RESULTS

Test	Results	Pass	Fail	Comments
<i>GRAIHO Test 13 –</i> GRAIHO failure to all GSs in RGSL; AIHO based on GSIF	Avionics retuned to 136.750 _____ Avionics failed HO to non-existent Radio 1 _____ Avionics failed HO to non-existent Radio 2 _____ Avionics failed HO to non-existent Radio 3 _____ Avionics failed HO to non-existent Radio 4 _____ Avionics failed HO to non-existent Radio 5 _____ Avionics handed off to Radio B _____	P	—	—
<i>GRAIHO Test 14 –</i> GRAIHO failure for all GSs in RGSL – frequency recovery based on FSL provided in GRAIHO	Avionics retuned to 136.750 _____ Avionics failed HO to non-existent Radio 1 _____ Avionics failed to HO non-existent Radio 2 _____ Avionics failed to HO non-existent Radio 3 _____ Avionics failed HO to non-existent Radio 4 _____ Avionics failed HO to non-existent Radio 5 _____ Avionics retuned to 136.975 _____ Avionics established link with Radio C _____	P	—	—
<i>GRAIHO Test 15 –</i> GRAIHO before RR	Avionics retuned to 136.750 _____ Avionics handed off to Radio B _____ Avionics completed downlink to Radio B _____	P	—	—

VDL MULTI-FREQUENCY AQP TEST RESULTS

Test	Results	Pass	Fail	Comments
FSL Test 1 – Successful FSL (retune to alt freq. matching airport coverage)	(On ground) avionics retuned to 136.750 _____ Avionics handed off to Radio B _____	P	_____	_____
FSL Test 2 – FSL ignored; non-matching airport	(On ground) avionics does NOT retune to 136.750 _____	P	_____	_____
FSL Test 3 – Successful FSL (landing and takeoff)	(On ground) avionics retuned to 136.750 _____ Avionics handed off to Radio B _____ (On takeoff) avionics retuned to 136.975 _____ Avionics handed off to Radio A _____	P	_____	_____
FSL Test 4 – Successful FSL (takeoff and landing even though non-matching airport)	(On ground) avionics retuned to 136.750 _____ Avionics handed off to Radio B _____ (On takeoff avionics retuned to 136.975 _____ Avionics handed off to Radio A _____	P	_____	_____
FSL Test 5 – Successful FSL retune to alt freq. with >1 GS in list	(On ground) avionics retuned to 136.750 _____ Avionics handed off to _____ Radio B or _____ Radio C (repeat test) (On ground) avionics retuned to 136.750 _____ Avionics handed off to _____ Radio B or _____ Radio C <i>Repeat test until avionics has handed off to both Radio B and Radio C.</i>	P	_____	_____
FSL Test 6 – FSL ignored (AC in air, matching airport)	Avionics does NOT retune to 136.975 _____	P	_____	_____
FSL Test 7 – FSL ignored (AC in air, non-matching airport)	Avionics does NOT retune to 136.975 _____	P	_____	_____
FSL Test 8 – Successful FSL followed by normal air-initiated handoff	(On ground) avionics retuned to 136.750 _____ Avionics handed off to Radio B _____ (On takeoff) avionics retuned to 136.975 _____ Avionics handed off to Radio A _____ Avionics handed off to Radio C _____	P	_____	_____
FSL Test 9 – FSL retune fails; fallback to CSC	(On ground) avionics retuned to 136.750 _____ Avionics failed HO to non-existent Radio 1 _____ Avionics retuned to 136.975 _____ Avionics established link to Radio A _____	P	_____	_____

VDL MULTI-FREQUENCY AQP TEST RESULTS

Test	Results	Pass	Fail	Comments
FSL Test 10 – FSL retune to alt freq. fails with >1 GS in list; fallback to CSC	(On ground) avionics retuned to _____ 136.750 or _____ 136.800 Avionics fails to handoff to non-existent radio _____ Avionics retuned to _____ 136.750 or _____ 136.800 Avionics fails to handoff to non-existent radio _____ Avionics retuned to 136.975 _____ Avionics established link to Radio A _____	P	—	—
FSL Test 11 – FSL retune back to CSC after takeoff fails	(On ground) avionics retuned to 136.750 _____ Avionics handed off to Radio B _____ (On takeoff) avionics retuned to 136.975 _____ Avionics failed HO to non-existent Radio 1 _____ Avionics established link with Radio A _____	P	—	—
FSL Test 12 – Successful FSL retune to alt. freq. followed by fallback to CSC	(On ground) avionics retuned to 136.750 _____ Avionics handed off to Radio B _____ Avionics loses link with Radio B _____ Avionics falls back to 136.975 _____ Avionics established link with Radio A _____	P	—	—
FSL Test 13 – Frequency recovery – FSL ignored; AC in-air (matching airport, mismatch GND bit)	(In air) avionics did NOT retune to 136.750 _____ Avionics lost link with Radio A _____ Avionics returned to POA _____	P	—	—
FSL Test 14 – Frequency recovery – FSL ignored; AC in-air (non-matching airport), mismatch GND bit	(In air) avionics did NOT retune to 136.750 _____ Avionics lost link with Radio A _____ Avionics returned to POA _____	P	—	—
FSL Test 15 – Frequency recovery – FSL used; AC in-air (matching airport)	(In air) avionics lost link with Radio B _____ Avionics retuned to CSC _____ Avionics established link to Radio A _____	P	—	—
FSL Test 16 – Frequency recovery – FSL used; AC in-air (non-matching airport)	(In air) avionics lost link with Radio B _____ Avionics retuned to CSC _____ Avionics established link to Radio A _____	P	—	—
FSL Test 17 – Frequency recovery – FSL used; AC on ground on CSC (matching airport)	(On ground) avionics retuned to 136.750 _____ Avionics handed off to Radio B _____ Avionics lost link with Radio B _____ Avionics retuned to 136.975 _____ Avionics established link to Radio A _____	—	E	<u>OK</u>
FSL Test 18 – Frequency recovery – FSL used; AC on-ground (non-matching airport)	(On ground) avionics retuned to 136.750 _____ Avionics handed off to Radio B _____ Avionics lost link with Radio B _____ Avionics retuned to 136.975 _____ Avionics established link to Radio C _____	—	E	<u>OK</u>

VDL MULTI-FREQUENCY AQP TEST RESULTS

Test	Results	Pass	Fail	Comments
FSL Test 19 – Frequency recovery – FSL used; AC in-air on alt. freq; followed by GRAIHO	(In air) avionics retuned to 136.750 _____ Avionics handed off to Radio B _____ Avionics lost link with Radio B _____ Avionics retuned to CSC _____ Avionics established link to Radio A _____ Avionics retuned to 136.750 _____ Avionics handed off to Radio B _____	P	—	—
FSL Test 20 – Aircraft Air/Ground Bit	On ground – ground bit = 1 _____ In air – ground bit = 0 _____	P	—	—

VDL MULTI-FREQUENCY AQP TEST RESULTS

Test	Results	Pass	Fail	Comments
GIHO Test 1 – Successful GIHO on CSC	Avionics responded to GIHO from Radio B on 136.975 _____	P	—	—
GIHO Test 2 – Successful GIHO on altFreq	Avionics responded to GIHO from Radio C on 136.750 _____	P	—	—
GIHO Test 3 – GIHO with RGSL	Avionics handed off to Radio C from GIHO RGSL _____	P	—	—
GIHO Test 4 – Successful GIHO with all optional parameters	Avionics responded to GIHO from Radio B on 136.975 _____	P	—	—
GIHO Test 5 – Successful GIHO followed by another GIHO	Avionics responded to GIHO from Radio B on 136.975 _____ Avionics responded to GIHO from Radio C on 136.975 _____	P	—	—
GIHO Test 6 – Successful GIHO followed by fallback to CSC	Avionics responded to GIHO from Radio C on 136.750 _____ Avionics returned to 136.975 _____ Avionics sent XID_CMD_LE to Radio A on 136.975 _____	P	—	—
GIHO Test 7 – Successful GIHO followed by normal air-initiated handoff	Avionics responded to GIHO from Radio B on 136.975 _____ Avionics sent XID_CMD_HO to Radio C on 136.975 _____	P	—	—
GIHO Test 8 – GIHO retransmission	Avionics responded to GIHO from Radio B on 136.975 _____ Avionics responded to retransmitted GIHO from Radio B on 136.975 _____	P	—	—
GIHO Test 10 – Recovery after GIHO reject	Avionics responded to GIHO from Radio C on 136.975 _____ Avionics accepted DISC from Radio C on 136.975 _____ Avionics link with Radio B was not affected _____	P	—	—

Airline: [REDACTED]

Code: [REDACTED]

AQP Phase: 3

<input checked="" type="checkbox"/> VDLM0 (POA) Tested	<input type="checkbox"/> Classic Aero Satcom Tested	<input type="checkbox"/> AOIP (ACARS Over IP) Tested
<input checked="" type="checkbox"/> VDLM0 (POA) Capable	<input type="checkbox"/> Classic Aero Satcom Capable	<input type="checkbox"/> AOIP (ACARS Over IP) Capable
<input checked="" type="checkbox"/> VDLMA (POA) Tested	<input type="checkbox"/> SB-S (Swift Broadband Safety) Tested	<input type="checkbox"/> HFDL Tested
<input checked="" type="checkbox"/> VDLMA (POA) Capable	<input type="checkbox"/> SB-S (Swift Broadband Safety) Capable	<input checked="" type="checkbox"/> HFDL Capable
<input checked="" type="checkbox"/> VDLM2 (AOA) Tested	<input checked="" type="checkbox"/> SB-S 2 (Enhanced SB-S) Tested	<input type="checkbox"/> HF NEXT Tested
<input checked="" type="checkbox"/> VDLM2 (AOA) Capable	<input checked="" type="checkbox"/> SB-S 2 (Enhanced SB-S) Capable	<input type="checkbox"/> HF NEXT Capable
<input type="checkbox"/> VDLM2 (ATN) Tested	<input type="checkbox"/> Iridium (Block 1) Tested	<input type="checkbox"/> OTHER Tested
<input checked="" type="checkbox"/> VDLM2 (ATN) Capable	<input checked="" type="checkbox"/> Iridium (Block 1) Capable	<input checked="" type="checkbox"/> OTHER Capable IRIS
<input type="checkbox"/> VDLMF Tested	<input type="checkbox"/> Iridium CERTUS Tested	
<input checked="" type="checkbox"/> VDLMF Capable	<input type="checkbox"/> Iridium CERTUS Capable	

Test Engineers' Initials: [REDACTED]

AQP Type: Test

Reference: 18.046

Test/Evaluation

Test Dates: From: 2/3/2025

To: 2/12/2025

Tested Configuration:

Manufacturer	Spec	Model	Part #
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OTHER: [REDACTED]

MU SOFTWARE PART NUMBERS

Applicable Aircraft: [REDACTED]

VHF Status: Waived

HF NEXT Status: [REDACTED]

SATCOM Status: [REDACTED]

IRIDIUM Cert Status: [REDACTED]

Letter Sent: [REDACTED]

HFDL Status: [REDACTED]

SBS Status: [REDACTED]

IRIDIUM Status: [REDACTED]

OTHER Media Status: [REDACTED]

SBS2 Status: Waived

ACARS Over IP Status: [REDACTED]

CMU HARDWARE

[REDACTED]

[REDACTED]

Service Functional Capability Level: [REDACTED]

[REDACTED]

[REDACTED]

HW_Revision

[REDACTED]

[REDACTED]

VDL Multi Frequency

Co Channel Compliant

Multi Bearer SATCOM

OTHER

[REDACTED]

MU SOFTWARE PART NUMBERS

[REDACTED]

Comments:

VHF HARDWARE

[REDACTED]

[REDACTED]

[REDACTED]

Core SW Part Number: [REDACTED]

Other S/W Type S/W Part Number

Comments:

ENHANCED SWIFT BROADBAND HARDWARE

[REDACTED]

[REDACTED]

SBS2 Product Class: [REDACTED]

Antenna: [REDACTED]

[REDACTED] [REDACTED] SBU Type: [REDACTED]

[REDACTED] SBU HW Revision: [REDACTED]

[REDACTED]

Smart Card Vendor: [REDACTED]

Other SW Type

SW Part Number

RF Unit Type

Model Number

HW Part Number

COMMENTS:

ARINC AQP SCORECARD
TEST RESULTS/DATA

TEST_ID 25.007

Airline: [REDACTED]

Code: [REDACTED]

AQP Phase: 3

<input type="checkbox"/> VDLM0 (POA) Tested	<input type="checkbox"/> Classic Aero Satcom Tested	<input type="checkbox"/> AOIP (ACARS Over IP) Tested
<input type="checkbox"/> VDLM0 (POA) Capable	<input type="checkbox"/> Classic Aero Satcom Capable	<input type="checkbox"/> AOIP (ACARS Over IP) Capable
<input type="checkbox"/> VDLMA (POA) Tested	<input type="checkbox"/> SB-S (Swift Broadband Safety) Tested	<input type="checkbox"/> HFDL Tested
<input type="checkbox"/> VDLMA (POA) Capable	<input type="checkbox"/> SB-S (Swift Broadband Safety) Capable	<input type="checkbox"/> HFDL Capable
<input type="checkbox"/> VDLM2 (AOA) Tested	<input type="checkbox"/> SB-S 2 (Enhanced SB-S) Tested	<input type="checkbox"/> HF NEXT Tested
<input type="checkbox"/> VDLM2 (AOA) Capable	<input type="checkbox"/> SB-S 2 (Enhanced SB-S) Capable	<input type="checkbox"/> HF NEXT Capable
<input type="checkbox"/> VDLM2 (ATN) Tested	<input type="checkbox"/> Iridium (Block 1) Tested	<input type="checkbox"/> OTHER Tested
<input type="checkbox"/> VDLM2 (ATN) Capable	<input type="checkbox"/> Iridium (Block 1) Capable	<input type="checkbox"/> OTHER Capable
<input type="checkbox"/> VDLMF Tested	<input checked="" type="checkbox"/> Iridium CERTUS Tested	
<input type="checkbox"/> VDLMF Capable	<input checked="" type="checkbox"/> Iridium CERTUS Capable	

Test Engineers' Initials: [REDACTED]

AQP Type: Test

Reference: [REDACTED]

Test/Evaluation

Test Dates: From: To:

Tested Configuration:

Manufacturer	Spec	Model	Part #
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[REDACTED]			
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VHF RADIO: [REDACTED] [REDACTED] [REDACTED] [REDACTED]

OTHER: [REDACTED] [REDACTED] [REDACTED] [REDACTED]

MU SOFTWARE PART NUMBERS

[REDACTED]	[REDACTED]

Applicable Aircraft: [REDACTED]

VHF Status: [REDACTED]

HF NEXT Status: [REDACTED]

SATCOM Status: [REDACTED]

IRIDIUM Cert Status: Failed

Letter Sent: [REDACTED]

HFDL Status: [REDACTED]

SBS Status: [REDACTED]

IRIDIUM Status: [REDACTED]

OTHER Media Status: [REDACTED]

SBS2 Status: [REDACTED]

ACARS Over IP Status: [REDACTED]

IRIDIUM HARDWARE

IRIDIUM AQP Status: Failed

IRIDIUM SATELLITE DATA UNIT

Vendor: [REDACTED]

Class: [REDACTED]

Model: [REDACTED]

Antenna: [REDACTED]

H/W Part #: [REDACTED]

Antenna Model: [REDACTED]

S/W Part #: [REDACTED]

Antenna H/W Part #: [REDACTED]

RF Unit Type Model

HW Part Number

Other S/W Type S/W Part Number

BCX MANUFACTURER

BCX MODEL

BCX FW #

CH # CH TPE

COMMENTS:

S
S
S
A

[REDACTED]

ARINC AQP SCORECARD
TEST RESULTS/DATA

TEST_ID 25.010

Airline: [REDACTED]

Code: [REDACTED]

AQP Phase: 3

<input type="checkbox"/> VDLMO (POA) Tested	<input type="checkbox"/> Classic Aero Satcom Tested	<input type="checkbox"/> AOIP (ACARS Over IP) Tested
<input type="checkbox"/> VDLMO (POA) Capable	<input type="checkbox"/> Classic Aero Satcom Capable	<input type="checkbox"/> AOIP (ACARS Over IP) Capable
<input type="checkbox"/> VDLMA (POA) Tested	<input type="checkbox"/> SB-S (Swift Broadband Safety) Tested	<input checked="" type="checkbox"/> HFDL Tested
<input type="checkbox"/> VDLMA (POA) Capable	<input type="checkbox"/> SB-S (Swift Broadband Safety) Capable	<input checked="" type="checkbox"/> HFDL Capable
<input type="checkbox"/> VDLM2 (AOA) Tested	<input type="checkbox"/> SB-S 2 (Enhanced SB-S) Tested	<input type="checkbox"/> HF NEXT Tested
<input type="checkbox"/> VDLM2 (AOA) Capable	<input type="checkbox"/> SB-S 2 (Enhanced SB-S) Capable	<input type="checkbox"/> HF NEXT Capable
<input type="checkbox"/> VDLM2 (ATN) Tested	<input type="checkbox"/> Iridium (Block 1) Tested	<input type="checkbox"/> OTHER Tested
<input type="checkbox"/> VDLM2 (ATN) Capable	<input type="checkbox"/> Iridium (Block 1) Capable	<input type="checkbox"/> OTHER Capable
<input type="checkbox"/> VDLMF Tested	<input type="checkbox"/> Iridium CERTUS Tested	
<input type="checkbox"/> VDLMF Capable	<input type="checkbox"/> Iridium CERTUS Capable	

Test Engineers' Initials: [REDACTED]

AQP Type: Test

Reference: [REDACTED]

Test/Evaluation

Test Dates: From: 3/12/2025 To: 3/14/2025

Tested Configuration:

Manufacturer	Spec	Model	Part #
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[REDACTED]				
[REDACTED]				
OTHER: [REDACTED]				
[REDACTED]				

Applicable Aircraft: [REDACTED]

VHF Status: [REDACTED]

HF NEXT Status: [REDACTED]

SATCOM Status: [REDACTED]

IRIDIUM Cert Status: [REDACTED]

Letter Sent: [REDACTED]

HFDL Status: Failed

SBS Status: [REDACTED]

IRIDIUM Status: [REDACTED]

OTHER Media Status: [REDACTED]

SBS2 Status: [REDACTED]

ACARS Over IP Status: [REDACTED]

HFDL HARDWARE

HFDL AQP Status: Failed

Vendor: AEEC: Unit Model: Hardware Part Number: Software Part Number:

Comments:

[REDACTED]

TEST RESULTS/DATA

Airline: [REDACTED]

Code: [REDACTED]

AQP Phase: 3

<input type="checkbox"/> VDLM0 (POA) Tested	<input type="checkbox"/> Classic Aero Satcom Tested	<input type="checkbox"/> AOIP (ACARS Over IP) Tested
<input type="checkbox"/> VDLM0 (POA) Capable	<input type="checkbox"/> Classic Aero Satcom Capable	<input type="checkbox"/> AOIP (ACARS Over IP) Capable
<input type="checkbox"/> VDLMA (POA) Tested	<input type="checkbox"/> SB-S (Swift Broadband Safety) Tested	<input type="checkbox"/> HFDL Tested
<input type="checkbox"/> VDLMA (POA) Capable	<input type="checkbox"/> SB-S (Swift Broadband Safety) Capable	<input type="checkbox"/> HFDL Capable
<input type="checkbox"/> VDLM2 (AOA) Tested	<input type="checkbox"/> SB-S 2 (Enhanced SB-S) Tested	<input type="checkbox"/> HF NEXT Tested
<input type="checkbox"/> VDLM2 (AOA) Capable	<input type="checkbox"/> SB-S 2 (Enhanced SB-S) Capable	<input type="checkbox"/> HF NEXT Capable
<input type="checkbox"/> VDLM2 (ATN) Tested	<input type="checkbox"/> Iridium (Block 1) Tested	<input type="checkbox"/> OTHER Tested
<input type="checkbox"/> VDLM2 (ATN) Capable	<input type="checkbox"/> Iridium (Block 1) Capable	<input type="checkbox"/> OTHER Capable
<input type="checkbox"/> VDLMF Tested	<input checked="" type="checkbox"/> Iridium CERTUS Tested	
<input type="checkbox"/> VDLMF Capable	<input checked="" type="checkbox"/> Iridium CERTUS Capable	

Test Engineers' Initials: [REDACTED]

AQP Type: Test

Reference: [REDACTED]

Test/Evaluation

Test Dates: From: 3/20/2025 To: 3/28/2025

Tested Configuration:

Manufacturer	Spec	Model	Part #
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VHF RADIO: [REDACTED]

OTHER: [REDACTED]

MU SOFTWARE PART NUMBERS

Applicable Aircraft: [REDACTED]

VHF Status: [REDACTED]

HF NEXT Status: [REDACTED]

SATCOM Status: [REDACTED]

IRIDIUM Cert Status: Pass

Letter Sent: [REDACTED]

HFDL Status: [REDACTED]

SBS Status: [REDACTED]

IRIDIUM Status: [REDACTED]

Notes: [REDACTED]

OTHER Media Status: [REDACTED]

SBS2 Status: [REDACTED]

ACARS Over IP Status: [REDACTED]

IRIDIUM HARDWARE

IRIDIUM AQP Status: Pass

IRIDIUM SATELLITE DATA UNIT



RF Unit Type Model HW Part Number

Other S/W Type S/W Part Number

BCX MANUFACTURER

BCX MODEL

BCX FW #

CH # CH TPE

COMMENTS:



CMU HARDWARE

CMU AQP Status: Waived

Service Functional Capability Level:

AEEC Spec:

HW Revision

Core_SW_Part_Number:

VDL Multi Frequency

Co Channel Compliant

Multi Bearer SATCOM

OTHER

MU SOFTWARE PART NUMBERS

Comments:



Collins Aerospace

TEST ID: 25.013

PHASE 3 AQP TEST RESULTS

<input type="checkbox"/> VHF TESTED?	<input type="checkbox"/> HF TESTED?	<input type="checkbox"/> SATCOM TESTED?	<input type="checkbox"/> IRIDIUM TESTED?
<input type="checkbox"/> VHF CAPABLE?	<input type="checkbox"/> HF CAPABLE?	<input type="checkbox"/> SATCOM CAPABLE?	<input type="checkbox"/> IRIDIUM CAPABLE?
<input checked="" type="checkbox"/> VDLMA TESTED?	<input checked="" type="checkbox"/> AOA TESTED?	<input type="checkbox"/> ATN TESTED?	<input checked="" type="checkbox"/> VDLMF TESTED?
<input checked="" type="checkbox"/> VDLMA CAPABLE?	<input checked="" type="checkbox"/> AOA CAPABLE?	<input checked="" type="checkbox"/> ATN CAPABLE?	<input checked="" type="checkbox"/> VDLMF CAPABLE?
<input type="checkbox"/> SB-S TESTED?	<input type="checkbox"/> AoIP TESTED?	<input type="checkbox"/> SB-S 2.0 TESTED?	
<input type="checkbox"/> SB-S CAPABLE?	<input type="checkbox"/> AoIP CAPABLE?	<input type="checkbox"/> SB-S 2.0 CAPABLE?	

Airline/Customer:

Initial/Retest:

Test Engineer: [REDACTED]

Test Dates:

From: 03/31/2025

To: 04/11/2025

TESTED CONFIGURATION

Additional CMU SOFTWARE PART NUMBERS:

Applicable Aircraft:

Notes: _____

VHF AQP TEST RESULTS

OOOI EVENTS

<u>DESCRIPTION</u>	<u>REQUIREMENTS</u>	<u>Y/N</u>
<u>Message Sequencing</u>	Messages are downlinked in a logical order according to airline documentation.	_____
<u>Message Buffering</u>	Messages are buffered when not acknowledged. and retransmitted when radio contact resumes.	_____
<u>Timers</u>	OFF/ON events are delayed approximately 10 seconds.	_____
<u>Filters</u>	IN/OUT events are delayed approximately 2 seconds.	_____
<u>Source</u>	Source of OOOI events.	_____
<u>OOOI Labels</u>	If Digital 429, list peripheral(s). MU uses standard QA-QV OOOI labels or unique.	_____
	ON/OFF with Dept. & Dest.	_____
Comments: _____		

RETRANSMISSION INTERVAL

<u>DESCRIPTION</u>	<u>REQUIREMENTS</u>	<u>DATA: Time Between Transmissions Seconds)</u>							
		<u>Test #/Xmission</u>	<u>1&2</u>	<u>2&3</u>	<u>3&4</u>	<u>4&5</u>	<u>5&6</u>	<u>P/F</u>	
<u>Retransmissions</u>	Downlinks are retransmitted 3-5 times at randomly spaced intervals from 10 to 25 seconds before NOCOMM is displayed	1	21	24	18	10	10	P	
		2	17	14	15	25	24	P	
		3	16	10	10	11	17	P	
		4	15	15	15	21	21	P	

PREKEY TIME

<u>DESCRIPTION</u>	<u>REQUIREMENTS</u>	<u>DATA</u>
<u>Unmodulated Carrier</u>	1 millisecond maximum	_____
<u>Transmission Time Prekey</u>	85 milliseconds maximum	_____
<u>Programmable Prekey</u>	Is prekey programmable?	_____

Comments: _____

VHF AQP TEST RESULTS

MISCELLANEOUS

<u>DESCRIPTION</u>	<u>REQUIREMENTS</u>	<u>DATA (P/F)</u>
Protocol and Embedded ACKs	Avionics utilizes UBI/DBI protocol. If yes, protocol works correctly. Downlink retransmissions contain the same MSN before and after a NOCOMM condition. Avionics processes uplink with the same UBI within 10 minutes as a duplicate uplink. An embedded ACK to an uplink is changed to an embedded NAK in subsequent downlink retransmissions. Avionics properly handles embedded ACKS in uplink messages. Avionics provides embedded ACKS in downlink messages.	P P P P P P P
Comments: _____		
U/L & D/L Multiblock Processing	Avionics accepts and prints multiblock messages. Avionics accepts and displays multiblock messages. “INCOMPLETE MESSAGE” advisory given when subsequent blocks not received in 1.5 minutes. If part of a multiblock downlink has been acknowledged, and the avionics goes NOCOMM, the entire multiblock message is resent when COMM is regained.	P P P P
Comments: _____		
Tracker Message	Tracker Message interval (minutes). Intervals are at 10 minutes and only in the absence of other downlinks. NOT sent while the aircraft is on the ground. Tracker Messages are not queued while the avionics is in voice mode. Tracker Timer reset by uplink ACK to a downlink.	10:00 P P N/A P
Comments: _____		
Contact Message	Contact Message interval. Sent only if no uplink traffic is heard for a defined period of time. NOT sent while the aircraft is on the ground. Contact/Tracker used on alternate (autotune) frequency?	4:00 P P P
Comments: _____		

VHF AQP TEST RESULTS

CHANNEL ACCESS

<u>DESCRIPTION</u>	<u>REQUIREMENTS</u>	<u>DATA (P/F)</u>
<u>Channel Access Algorithm</u>	Will not transmit while receiving a 1200 Hz MSK modulated signal. Will not transmit while receiving a 2400 Hz MSK modulated signal. Will not transmit while receiving a random (1200/2400) MSK modulated signal. Will not transmit while receiving actual traffic with 75ms prekey. Must check for channel occupancy before transmitting an ACK to an uplink.	_____ _____ _____ _____ _____
<u>Carrier Sense Multiple Access</u>	The avionics implements a non-persistent CSMA algorithm.	_____
Comments: _____		

AGENCY CODE, REGISTRATION NUMBER, AND FLIGHT NUMBER

<u>DESCRIPTION</u>	<u>REQUIREMENTS</u>	<u>DATA (P/F)</u>
<u>Default Agency</u>	Enter the default agency code source and list the agency code.	<u>APM</u>
<u>Agency Code Chars.</u>	Will the avionics accept numeric characters for the agency code?	_____
<u>Default Reg #</u>	Enter the default registration source and list the registration number.	<u>APM</u>
<u>Flight Number</u>	Flight numbers less than four characters are padded with leading zeros.	_____
<u>AN/FI Address</u>	Will the avionics accept alpha characters for the flight number? Avionics supports both AN and FI addressing.	<u>P</u> <u>P</u> <u>P</u>

Comments: _____

ARINC EUROPEAN BASE FREQUENCY – 131.825 MHz

Is 131.825 present and enabled in the scan table?
Are tracker messages enabled on 131.825?
Are contact messages enabled on 131.825?
Does the avionics respond properly when autotune received while on 131.825?

VHF AQP TEST RESULTS

MULTI-MEDIA FUNCTIONS

<u>DESCRIPTION</u>	<u>REQUIREMENTS</u>	<u>DATA P/F</u>
<u>Preferred Media & Simultaneous Media</u>	MU uses VHF as preferred media and only communicates via SATCOM/HFDL when VHF is unavailable or when responding to an unsolicited SATCOM/HFDL U/L. MU always attempts to complete on media where originated.	_____
<u>Multiblock D/L Handling</u>	The MU correctly handles multiblock retransmission when changing media. Entire message is retransmitted. Original MSN is retained.	_____
<u>VHF to SATCOM/HF</u>	The avionics completes failed VHF transmissions on SATCOM/HF media and alerts the crew of the VHF NOCOMM conditions. Avionics sends downlinks via SATCOM/HF when In voice mode (if available).	_____
<u>SATCOM/HF to VHF Transitions</u>	The avionics monitors the available VHF frequencies and attempts to re-establish the VHF media (Label QO, SA, etc.).	_____
<u>Automatic Link Establishment</u>	MU automatically sends a QO downlink (followed by SA). via SATCOM whenever the SDU logs on. Same as VHF & HF.	_____
<u>UBI/DBI Handling</u>	The MU correctly maintains separate and independent UBI/DBI's for the VHF, SATCOM and HF links.	_____

622/623 PROTOCOL & FUNCTIONS

<u>D/L Message Format</u>	ATS messages are downlinked in proper format.	P
<u>U/L Message Format</u>	Uplinks are checked for ATS format compliance.	P
<u>CRC</u>	Downlinks contain proper CRC values.	P
	Uplinks are tested for proper CRC values.	P
	U/L messages w/o CRC or improper CRC are rejected.	P
	Avionics accepts U/L's with or without ending CR/LF chars.	P
<u>ATS U/L Response</u>	MU provides readback responses where appropriate (i.e., PDC Accept/Reject).	P
<u>Multiblock ATS Messages</u>	MU properly handles multiblock ATS messages.	P
<u>Multiblock Prioritization</u>	Avionics supports nesting of higher priority single block uplinks.	P
Comments: _____	Avionics supports nesting of higher priority multiblock uplinks.	P

VHF AQP TEST RESULTS

STUCK CARRIER

<u>DESCRIPTION</u>	<u>REQUIREMENTS</u>	<u>DATA (P/F)</u>
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Stuck Transmitter	Avionics does not exhibit any stuck transmitter as a result of power cycling or related testing.	_____
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AUTOTUNE FUNCTIONS

<u>DESCRIPTION</u>	<u>REQUIREMENTS</u>	<u>Label #</u>	<u>Data (P/F)</u>
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<u>ACK to Command</u>	Avionics provides ACK to autotune command before changing frequency.	_____	P
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<u>Channel Changeover</u>	Avionics changes to frequency specified by Autotune command.	_____	P
---------------------------	--	-------	---

<u>Link Tests on New Frequency</u>	Avionics immediately conducts at least 3 link tests on the new frequency.	Q0	6	P
------------------------------------	---	----	---	---

<u>Return to Base Frequency and Conduct Link Test</u>	Avionics returns to the base frequency immediately conducts at least 3 tests to re-establish communication.	Q0	6	P
---	---	----	---	---

<u>Autotune to an Autotune</u>	If the avionics was autotuned and a subsequent autotune is received, the avionics will correctly retune and return to the base frequency if unable to establish or maintain communication.	_____	P
--------------------------------	--	-------	---

Multiblock Completed After a Nested Autotune:

Downlink w/o embedded ACK in autotune	P	with embedded ACK	P
Uplink w/o embedded ACK in autotune	P	with embedded ACK	_____

<u>Power Interruption</u>	Avionics recalls last autotuned frequency if 115VAC power is interrupted (>1 min.) and 28VDC is retained. For how long will MU recall last autotune with Both 115VAC and 28VDC removed?	_____	<u>NO AC</u>
			P

<u>Frequency Tuning</u>	Will the avionics tune between 118.000 MHz and 136.975 MHz?	P
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AOA AQP TEST RESULTS

<u>DESCRIPTION</u>	<u>REQUIREMENTS</u>	<u>DATA P/F</u>
<u>Basic Link Establishment</u>	Avionics correctly implements the basic link establishment.	<u>P</u>
<u>Intramedia Switch and Debounce Timers</u>	Scenario 1 From Base to AOA < 10 min Scenario 2 From Base to AOA > 10 min Scenario 3 From Autotune to AOA < 10 min Scenario 4 From Autotune to AOA > 10 min	<u>P</u> <u>P</u> <u>P</u> <u>P</u>
<u>Voice/Data Mode</u>	Scenario 1: Voice mode < 4 min Scenario 2: Voice mode > 4 min < 10 min Scenario 3: Voice mode > 10 min	<u>N/A</u> <u>N/A</u> <u>N/A</u>
<u>Handoff Sequence</u>	Scenario 1 HO Signal Level Scenario 1A HO Signal Level Different DSP Scenario 1B HO Unanswered Scenario 1C HO Unanswered Different DSP Scenario 1D Uplink from Previous GS Scenario 2 HO attempt after Downlink Failure Scenario 2A HO attempt after Downlink Failure Different DSP Scenario 5 HO attempt to PECT Scenario 6 HO Time Out Scenario 6A HO Time Out Different DSP	<u>P</u> <u>P</u> <u>P</u> <u>P</u> <u>P</u> <u>P</u> <u>P</u> <u>P</u> <u>P</u> <u>P</u> <u>P</u>
<u>Multimedia</u>		<u>Scenario 1</u> <u>Scenario 2</u> <u>Scenario 3</u>
<u>Maximum Delay Between Transmissions</u>		<u>P</u>
<u>Message Assembly Timer</u>		<u>Scenario 1</u> <u>Scenario 2</u> <u>Scenario 3</u>

AOA AQP TEST RESULTS

<u>DESCRIPTION</u>	<u>REQUIREMENTS</u>	<u>DATA P/F</u>
<u>UBI Reset Timer</u>		P
<u>VAC1 Counter and VAT7 Timer</u>		P
<u>Retune and Autotune</u>	POA to AOA Retune to CSC POA to AOA Retune to Alternate Frequency POA to AOA Retune Ignore Debounce Timer POA to AOA Retune Nested in Downlink POA to AOA Retune Nested in Uplink POA to AOA Retune with GS ICAO Address	P P P P P N/A
	AOA to POA Autotune Base Frequency AOA to POA Autotune Alternate Frequency AOA to POA Autotune Debounce Timer AOA to POA Autotune Nested in Downlink AOA to POA Autotune Nested in Uplink AOA to POA Autotune Fall to POA Base	P P P P P N/A

Comments: _____

<u>Criss-Cross Uplink</u>	Scenario 1	P
	Scenario 2	P

ICAO Addressing

Comments: _____

VDL MULTI-FREQUENCY AQP TEST RESULTS

Test	Results	Pass	Fail	Comments
<i>GRAIHO Test 1 – CSC to AltFreq</i>	Avionics retuned to 136.750 _____ Avionics handed off to Radio B _____	P	_____	_____
<i>GRAIHO Test 2 – AltFreq to CSC</i>	Avionics retuned to 136.975 _____ Avionics handed off to Radio A _____	P	_____	_____
<i>GRAIHO Test 3 – AltFreq1 to AltFreq2</i>	Avionics retuned to 136.750 _____ Avionics handed off to Radio B _____ Avionics retuned to 136.800 _____ Avionics handed off to Radio C _____ Avionics retuned to 136.975 _____ Avionics established link to Radio A _____	P	_____	_____
<i>GRAIHO Test 4 – to 1st GS in RGSL</i>	Avionics retuned to 136.750 _____ Avionics handed off to Radio B _____	P	_____	_____
<i>GRAIHO Test 5 – to last GS in RGSL</i>	Avionics retuned to 136.750 _____ Avionics failed HO to non-existent Radio 1 _____ Avionics failed HO to non-existent Radio 2 _____ Avionics handed off to Radio B _____	P	_____	_____
<i>GRAIHO Test 6 – w/ all optional parameters</i>	Avionics retuned to 136.750 _____ Avionics handed off to Radio B _____	P	_____	_____
<i>GRAIHO Test 7 – successive GRAIHOs</i>	Avionics retuned to 136.750 _____ Avionics handed off to Radio B _____ Avionics retuned to 136.975 _____ Avionics handed off to Radio A _____	P	_____	_____
<i>GRAIHO Test 8 – normal AIHO after GRAIHO</i>	Avionics retuned to 136.750 _____ Avionics handed off to Radio B _____ Avionics handed off to Radio C _____	P	_____	_____
<i>GRAIHO Test 9 – fallback to CSC after GRAIHO</i>	Avionics retuned to 136.750 _____ Avionics handed off to Radio B _____ Avionics retuned to 136.975 _____ Avionics established link to Radio A _____	P	_____	_____
<i>GRAIHO Test 11 – GRAIHO failure; fall back to CSC</i>	Avionics retuned to 136.750 _____ Avionics failed HO to non-existent Radio 1 _____ Avionics retuned to 136.975 _____ Avionics established link with Radio A _____	P	_____	_____
<i>GRAIHO Test 12 – GRAIHO failure to all GSs in RGSL; fallback to CSC</i>	Avionics retuned to 136.750 _____ Avionics failed HO to non-existent Radio 1 _____ Avionics failed HO to non-existent Radio 2 _____ Avionics failed HO to non-existent Radio 3 _____ Avionics failed HO to non-existent Radio 4 _____ Avionics failed HO to non-existent Radio 5 _____ Avionics retuned to 136.975 _____ Avionics established link with Radio A _____	P	_____	_____

VDL MULTI-FREQUENCY AQP TEST RESULTS

Test	Results	Pass	Fail	Comments
<i>GRAIHO Test 13 –</i> GRAIHO failure to all GSs in RGSL; AIHO based on GSIF	Avionics retuned to 136.750 _____ Avionics failed HO to non-existent Radio 1 _____ Avionics failed HO to non-existent Radio 2 _____ Avionics failed HO to non-existent Radio 3 _____ Avionics failed HO to non-existent Radio 4 _____ Avionics failed HO to non-existent Radio 5 _____ Avionics handed off to Radio B _____	<u>P</u>	_____	_____
<i>GRAIHO Test 14 –</i> GRAIHO failure for all GSs in RGSL – frequency recovery based on FSL provided in GRAIHO	Avionics retuned to 136.750 _____ Avionics failed HO to non-existent Radio 1 _____ Avionics failed to HO non-existent Radio 2 _____ Avionics failed to HO non-existent Radio 3 _____ Avionics failed HO to non-existent Radio 4 _____ Avionics failed HO to non-existent Radio 5 _____ Avionics retuned to 136.975 _____ Avionics established link with Radio C _____	<u>P</u>	_____	_____
<i>GRAIHO Test 15 –</i> GRAIHO before RR	Avionics retuned to 136.750 _____ Avionics handed off to Radio B _____ Avionics completed downlink to Radio B _____	<u>P</u>	_____	_____

VDL MULTI-FREQUENCY AQP TEST RESULTS

Test	Results	Pass	Fail	Comments
FSL Test 1 – Successful FSL (retune to alt freq. matching airport coverage)	(On ground) avionics retuned to 136.750 _____ Avionics handed off to Radio B _____	P	—	—
FSL Test 2 – FSL ignored; non-matching airport	(On ground) avionics does NOT retune to 136.750 _____	P	—	—
FSL Test 3 – Successful FSL (landing and takeoff)	(On ground) avionics retuned to 136.750 _____ Avionics handed off to Radio B _____ (On takeoff) avionics retuned to 136.975 _____ Avionics handed off to Radio A _____	P	—	—
FSL Test 4 – Successful FSL (takeoff and landing even though non-matching airport)	(On ground) avionics retuned to 136.750 _____ Avionics handed off to Radio B _____ (On takeoff) avionics retuned to 136.975 _____ Avionics handed off to Radio A _____	P	—	—
FSL Test 5 – Successful FSL retune to alt freq. with >1 GS in list	(On ground) avionics retuned to 136.750 _____ Avionics handed off to _____ Radio B or _____ Radio C (repeat test) (On ground) avionics retuned to 136.750 _____ Avionics handed off to _____ Radio B or _____ Radio C <i>Repeat test until avionics has handed off to both Radio B and Radio C.</i>	—	F	NOT RANDOM
FSL Test 6 – FSL ignored (AC in air, matching airport)	Avionics does NOT retune to 136.975 _____	P	—	—
FSL Test 7 – FSL ignored (AC in air, non-matching airport)	Avionics does NOT retune to 136.975 _____	P	—	—
FSL Test 8 – Successful FSL followed by normal air-initiated handoff	(On ground) avionics retuned to 136.750 _____ Avionics handed off to Radio B _____ (On takeoff) avionics retuned to 136.975 _____ Avionics handed off to Radio A _____ Avionics handed off to Radio C _____	P	—	—
FSL Test 9 – FSL retune fails; fallback to CSC	(On ground) avionics retuned to 136.750 _____ Avionics failed HO to non-existent Radio 1 _____ Avionics retuned to 136.975 _____ Avionics established link to Radio A _____	P	—	—

VDL MULTI-FREQUENCY AQP TEST RESULTS

Test	Results	Pass	Fail	Comments
FSL Test 10 – FSL retune to alt freq. fails with >1 GS in list; fallback to CSC	(On ground) avionics retuned to _____ 136.750 or _____ 136.800 Avionics fails to handoff to non-existent radio Avionics retuned to _____ 136.750 or _____ 136.800 Avionics fails to handoff to non-existent radio Avionics retuned to 136.975 _____ Avionics established link to Radio A _____		F	NOT RANDOM
FSL Test 11 – FSL retune back to CSC after takeoff fails	(On ground) avionics retuned to 136.750 _____ Avionics handed off to Radio B _____ (On takeoff) avionics retuned to 136.975 _____ Avionics failed HO to non-existent Radio 1 _____ Avionics established link with Radio A _____	P	—	—
FSL Test 12 – Successful FSL retune to alt. freq. followed by fallback to CSC	(On ground) avionics retuned to 136.750 _____ Avionics handed off to Radio B _____ Avionics loses link with Radio B _____ Avionics falls back to 136.975 _____ Avionics established link with Radio A _____	P	—	—
FSL Test 13 – Frequency recovery – FSL ignored; AC in-air (matching airport, mismatch GND bit)	(In air) avionics did NOT retune to 136.750 _____ Avionics lost link with Radio A _____ Avionics returned to POA _____	P	—	—
FSL Test 14 – Frequency recovery – FSL ignored; AC in-air (non-matching airport), mismatch GND bit	(In air) avionics did NOT retune to 136.750 _____ Avionics lost link with Radio A _____ Avionics returned to POA _____	P	—	—
FSL Test 15 – Frequency recovery – FSL used; AC in-air (matching airport)	(In air) avionics lost link with Radio B _____ Avionics retuned to CSC _____ Avionics established link to Radio A _____	P	—	—
FSL Test 16 – Frequency recovery – FSL used; AC in-air (non-matching airport)	(In air) avionics lost link with Radio B _____ Avionics retuned to CSC _____ Avionics established link to Radio A _____	P	—	—
FSL Test 17 – Frequency recovery – FSL used; AC on ground on CSC (matching airport)	(On ground) avionics retuned to 136.750 _____ Avionics handed off to Radio B _____ Avionics lost link with Radio B _____ Avionics retuned to 136.975 _____ Avionics established link to Radio A _____	—	F	—
FSL Test 18 – Frequency recovery – FSL used; AC on-ground (non-matching airport)	(On ground) avionics retuned to 136.750 _____ Avionics handed off to Radio B _____ Avionics lost link with Radio B _____ Avionics retuned to 136.975 _____ Avionics established link to Radio C _____	—	F	—

VDL MULTI-FREQUENCY AQP TEST RESULTS

Test	Results	Pass	Fail	Comments
FSL Test 19 – Frequency recovery – FSL used; AC in-air on alt. freq; followed by GRAIHO	(In air) avionics retuned to 136.750 _____ Avionics handed off to Radio B _____ Avionics lost link with Radio B _____ Avionics retuned to CSC _____ Avionics established link to Radio A _____ Avionics retuned to 136.750 _____ Avionics handed off to Radio B _____	P	—	—
FSL Test 20 – Aircraft Air/Ground Bit	On ground – ground bit = 1 _____ In air – ground bit = 0 _____	P	—	—

VDL MULTI-FREQUENCY AQP TEST RESULTS

Test	Results	Pass	Fail	Comments
GIHO Test 1 – Successful GIHO on CSC	Avionics responded to GIHO from Radio B on 136.975 _____	PP	—	—
GIHO Test 2 – Successful GIHO on altFreq	Avionics responded to GIHO from Radio C on 136.750 _____	—	—	—
GIHO Test 3 – GIHO with RGSL	Avionics handed off to Radio C from GIHO RGSL _____	—	E	—
GIHO Test 4 – Successful GIHO with all optional parameters	Avionics responded to GIHO from Radio B on 136.975 _____	P	—	—
GIHO Test 5 – Successful GIHO followed by another GIHO	Avionics responded to GIHO from Radio B on 136.975 _____ Avionics responded to GIHO from Radio C on 136.975 _____	P	—	—
GIHO Test 6 – Successful GIHO followed by fallback to CSC	Avionics responded to GIHO from Radio C on 136.750 _____ Avionics returned to 136.975 _____ Avionics sent XID_CMD_LE to Radio A on 136.975 _____	P	—	—
GIHO Test 7 – Successful GIHO followed by normal air-initiated handoff	Avionics responded to GIHO from Radio B on 136.975 _____ Avionics sent XID_CMD_HO to Radio C on 136.975 _____	P	—	—
GIHO Test 8 – GIHO retransmission	Avionics responded to GIHO from Radio B on 136.975 _____ Avionics responded to retransmitted GIHO from Radio B on 136.975 _____	P	—	—
GIHO Test 10 – Recovery after GIHO reject	Avionics responded to GIHO from Radio C on 136.975 _____ Avionics accepted DISC from Radio C on 136.975 _____ Avionics link with Radio B was not affected _____	P	—	—

TEST RESULTS/DATA

Airline: [REDACTED]

Code: [REDACTED]

AQP Phase: 3

<input type="checkbox"/> VDLM0 (POA) Tested	<input checked="" type="checkbox"/> Classic Aero Satcom Tested	<input type="checkbox"/> AOIP (ACARS Over IP) Tested
<input type="checkbox"/> VDLM0 (POA) Capable	<input checked="" type="checkbox"/> Classic Aero Satcom Capable	<input type="checkbox"/> AOIP (ACARS Over IP) Capable
<input type="checkbox"/> VDLMA (POA) Tested	<input type="checkbox"/> SB-S (Swift Broadband Safety) Tested	<input type="checkbox"/> HFDL Tested
<input type="checkbox"/> VDLMA (POA) Capable	<input type="checkbox"/> SB-S (Swift Broadband Safety) Capable	<input type="checkbox"/> HFDL Capable
<input type="checkbox"/> VDLM2 (AOA) Tested	<input type="checkbox"/> SB-S 2 (Enhanced SB-S) Tested	<input type="checkbox"/> HF NEXT Tested
<input type="checkbox"/> VDLM2 (AOA) Capable	<input type="checkbox"/> SB-S 2 (Enhanced SB-S) Capable	<input type="checkbox"/> HF NEXT Capable
<input type="checkbox"/> VDLM2 (ATN) Tested	<input type="checkbox"/> Iridium (Block 1) Tested	<input type="checkbox"/> OTHER Tested
<input type="checkbox"/> VDLM2 (ATN) Capable	<input type="checkbox"/> Iridium (Block 1) Capable	<input type="checkbox"/> OTHER Capable
<input type="checkbox"/> VDLMF Tested	<input type="checkbox"/> Iridium CERTUS Tested	
<input type="checkbox"/> VDLMF Capable	<input type="checkbox"/> Iridium CERTUS Capable	

Test Engineers' Initials: [REDACTED]

AQP Type: [REDACTED] Test

Reference: [REDACTED] 24.009

Test/Evaluation

Test Dates: From: [REDACTED] 4/9/2025

To: [REDACTED] 4/10/2025

Tested Configuration:

Manufacturer	Spec	Model	Part #
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[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

Applicable Aircraft: [REDACTED]

VHF Status: [REDACTED]

HF NEXT Status: [REDACTED]

SATCOM Status: [REDACTED] Waived

IRIDIUM Cert Status: [REDACTED]

Letter Sent: [REDACTED]

HFDL Status: [REDACTED]

SBS Status: [REDACTED]

IRIDIUM Status: [REDACTED]

OTHER Media Status: [REDACTED]

SBS2 Status: [REDACTED]

ACARS Over IP Status: [REDACTED]

CMU HARDWARE

CMU AQP Status: Waived

Service Functional Capability Level: [REDACTED]

VDL Multi Frequency Co Channel Compliant
 Multi Bearer SATCOM OTHER [REDACTED]

MU SOFTWARE PART NUMBERS

[REDACTED]
[REDACTED]

Comments:

[REDACTED]
[REDACTED]
[REDACTED]

SATCOM HARDWARE

SATCOM AQP Status: Waived



Unit Model

Hardware Part #

Software Part #

RFU:		
HPA:		
HLD:		
OTHER:		

Comments:



Airline: [REDACTED]

Code: [REDACTED]

AQP Phase: 3

<input type="checkbox"/> VDLMO (POA) Tested	<input type="checkbox"/> Classic Aero Satcom Tested	<input type="checkbox"/> AOIP (ACARS Over IP) Tested
<input type="checkbox"/> VDLMO (POA) Capable	<input type="checkbox"/> Classic Aero Satcom Capable	<input type="checkbox"/> AOIP (ACARS Over IP) Capable
<input type="checkbox"/> VDLMA (POA) Tested	<input type="checkbox"/> SB-S (Swift Broadband Safety) Tested	<input checked="" type="checkbox"/> HFDL Tested
<input type="checkbox"/> VDLMA (POA) Capable	<input type="checkbox"/> SB-S (Swift Broadband Safety) Capable	<input checked="" type="checkbox"/> HFDL Capable
<input type="checkbox"/> VDLM2 (AOA) Tested	<input type="checkbox"/> SB-S 2 (Enhanced SB-S) Tested	<input type="checkbox"/> HF NEXT Tested
<input type="checkbox"/> VDLM2 (AOA) Capable	<input type="checkbox"/> SB-S 2 (Enhanced SB-S) Capable	<input type="checkbox"/> HF NEXT Capable
<input type="checkbox"/> VDLM2 (ATN) Tested	<input type="checkbox"/> Iridium (Block 1) Tested	<input type="checkbox"/> OTHER Tested
<input type="checkbox"/> VDLM2 (ATN) Capable	<input type="checkbox"/> Iridium (Block 1) Capable	<input type="checkbox"/> OTHER Capable
<input type="checkbox"/> VDLMF Tested	<input type="checkbox"/> Iridium CERTUS Tested	
<input type="checkbox"/> VDLMF Capable	<input type="checkbox"/> Iridium CERTUS Capable	

Test Engineers' Initials: [REDACTED]

AQP Type: Test

Reference: [REDACTED]

Test/Evaluation

Test Dates: From: 4/14/2025 To: 4/25/2025

Tested Configuration:

Manufacturer	Spec	Model	Part #
[REDACTED]			
[REDACTED]			
[REDACTED]			

VHF Status: [REDACTED]	HF NEXT Status: [REDACTED]	SATCOM Status: [REDACTED]	IRIDIUM Cert Status: [REDACTED]
Letter Sent: [REDACTED]	HFDL Status: Failed	SBS Status: [REDACTED]	IRIDIUM Status: [REDACTED]
Notes: [REDACTED]	OTHER Media Status: [REDACTED]	SBS2 Status: [REDACTED]	ACARS Over IP Status: [REDACTED]

HFDL HARDWARE

HFDL AQP Status: Failed

Vendor: AEEC: Unit Model: Hardware Part Number: Software Part Number:

Comments:

[REDACTED]

ARINC AQP SCORECARD
TEST RESULTS/DATA

TEST_ID 25.018

Airline: [REDACTED]

Code: [REDACTED]

AQP Phase: 3

<input type="checkbox"/> VDLMO (POA) Tested	<input type="checkbox"/> Classic Aero Satcom Tested	<input type="checkbox"/> AOIP (ACARS Over IP) Tested
<input type="checkbox"/> VDLMO (POA) Capable	<input type="checkbox"/> Classic Aero Satcom Capable	<input type="checkbox"/> AOIP (ACARS Over IP) Capable
<input type="checkbox"/> VDLMA (POA) Tested	<input type="checkbox"/> SB-S (Swift Broadband Safety) Tested	<input type="checkbox"/> HFDL Tested
<input type="checkbox"/> VDLMA (POA) Capable	<input type="checkbox"/> SB-S (Swift Broadband Safety) Capable	<input type="checkbox"/> HFDL Capable
<input type="checkbox"/> VDLM2 (AOA) Tested	<input type="checkbox"/> SB-S 2 (Enhanced SB-S) Tested	<input type="checkbox"/> HF NEXT Tested
<input type="checkbox"/> VDLM2 (AOA) Capable	<input type="checkbox"/> SB-S 2 (Enhanced SB-S) Capable	<input type="checkbox"/> HF NEXT Capable
<input type="checkbox"/> VDLM2 (ATN) Tested	<input type="checkbox"/> Iridium (Block 1) Tested	<input type="checkbox"/> OTHER Tested
<input type="checkbox"/> VDLM2 (ATN) Capable	<input type="checkbox"/> Iridium (Block 1) Capable	<input type="checkbox"/> OTHER Capable
<input type="checkbox"/> VDLMF Tested	<input checked="" type="checkbox"/> Iridium CERTUS Tested	
<input type="checkbox"/> VDLMF Capable	<input checked="" type="checkbox"/> Iridium CERTUS Capable	

Test Engineers' Initials: [REDACTED]

AQP Type: [REDACTED]

Test
Evaluation

Reference: [REDACTED]

Test Dates: From: 4/28/2025 To: 5/2/2025

Tested Configuration:

Manufacturer	Spec	Model	Part #
[REDACTED]		[REDACTED]	
[REDACTED]		[REDACTED]	
[REDACTED]		[REDACTED]	
[REDACTED]			

Applicable Aircraft: [REDACTED]

VHF Status: [REDACTED]

HF NEXT Status: [REDACTED]

SATCOM Status: [REDACTED]

IRIDIUM Cert Status: Pass

Letter Sent: [REDACTED]

HFDL Status: [REDACTED]

SBS Status: [REDACTED]

IRIDIUM Status: [REDACTED]

Notes: [REDACTED]

OTHER Media Status: [REDACTED]

SBS2 Status: [REDACTED]

ACARS Over IP Status: [REDACTED]

ARINC IRIDIUM CERTUS PHASE 3 AQP
TEST RESULTS/DATA

TEST_ID 25.018

IRIDIUM HARDWARE

IRIDIUM AQP Status: Pass

IRIDIUM SATELLITE DATA UNIT



BCX MANUFACTURER

BCX MODEL

BCX FW #

CH # CH TPE

COMMENTS:



Collins Aerospace

TEST ID: 25.018

PHASE 3 AQP TEST RESULTS

<input type="checkbox"/> VHF TESTED?	<input type="checkbox"/> HF TESTED?	<input type="checkbox"/> SATCOM TESTED?	<input type="checkbox"/> IRIDIUM TESTED?
<input type="checkbox"/> VHF CAPABLE?	<input type="checkbox"/> HF CAPABLE?	<input type="checkbox"/> SATCOM CAPABLE?	<input type="checkbox"/> IRIDIUM CAPABLE?
<input type="checkbox"/> VDLMA TESTED?	<input type="checkbox"/> AOA TESTED?	<input type="checkbox"/> ATN TESTED?	<input type="checkbox"/> VDLMF TESTED?
<input type="checkbox"/> VDLMA CAPABLE?	<input type="checkbox"/> AOA CAPABLE?	<input type="checkbox"/> ATN CAPABLE?	<input type="checkbox"/> VDLMF CAPABLE?
<input type="checkbox"/> SB-S TESTED?	<input type="checkbox"/> AoIP TESTED?	<input type="checkbox"/> SB-S 2.0 TESTED?	
<input type="checkbox"/> SB-S CAPABLE?	<input type="checkbox"/> AoIP CAPABLE?	<input type="checkbox"/> SB-S 2.0 CAPABLE?	

Airline/Customer:

Initial/Retest:

Test Engineer:

Test Dates:

From: 4/28/25

To: 5/2/25

TESTED CONFIGURATION

Unit	Manufacturer + Model	Hardware Part #	Serial #	Software Part #

Additional CMU SOFTWARE PART NUMBERS:

	Black Label	Red Label HW	
	[REDACTED]		

Applicable Aircraft:

Notes:

Appendix A

Iridium CERTUS AQP Data Sheet

Section	Description	Requirement	Result
Multi-media			
4.1.1	Preferred Media	CMU/MU uses VHF as preferred media and only Iridium/Inmarsat/HFDL when responding to an Iridium/Inmarsat/HFDL uplink.	
4.1.3	Simultaneous Media	CMU/MU always attempts to complete on the medium where the message was originated.	
4.1.5	VHF to Iridium/Inmarsat/HF	The avionics restarted failed VHF transmissions on Iridium/Inmarsat/HF media and alerts the crew of the VHF NOCOMM conditions.	
4.1.7	Iridium/Inmarsat/HF to VHF	The avionics monitors the available VHF frequencies and attempts to reestablish the VHF medium. (Label Q0, SA, etc.).	
4.1.9	VHF Voice to Iridium	Avionics sends downlinks via Iridium when in VHF voice mode.	
4.1.11	Automatic Link Establishment	MU automatically sends a Q0 downlink followed by an SA via Iridium whenever the Iridium unit logs on. This may be an SA ES if the MU thinks it is connected to SATCOM. Same as VHF and HF.	P
4.1.13	UBI/DBI Handling	The MU correctly maintains separate and independent UBI/DBI's for the VHF, HF, and Iridium links.	
SDU Configuration and Installation			
4.2.1	ORT Contents	All required ORT contents are available, and settings SDU settings/features are identified.	
4.2.3	Dual SATCOM ORT Settings	Dual SATCOM ORT settings are available and Dual SATCOM configuration is identified.	
4.2.5	ORT Data Loading	The ORT is able to be loaded to the SDU via data loader or other means.	P
Dual SATCOM			
4.3.1	Dual Power-up Sequence	SDUs determine their settings correctly upon power-up and handle mode settings and parity conflicts appropriately.	

4.3.3	Dual Independent	General dual SATCOM operating principles are being followed, and there is minimal or no interaction between the two SDU systems.	
4.3.5	Dual Cold Standby	General dual SATCOM operating principles are being followed, and the SDU operates correctly in cold standby mode.	
4.3.7	Dual Warm Standby	General dual SATCOM operating principles are being followed, and the SDU operates correctly in warm standby mode.	
4.3.9	Dual Hot Standby	General dual SATCOM operating principles are being followed, and the SDU operates correctly in hot standby mode.	
4.3.11	Dual Cooperative	General dual SATCOM operating principles are being followed, and the SDU operates correctly in dual cooperative mode.	

429 Data Bus

4.4.1	Subsystem Identifier Word	The SDU properly identifies itself to the CMU/MU as an Iridium CERTUS unit.	P
4.4.3	SATCOM Available	The SDU does not announce SATCOM availability when there is no signal.	P
4.4.5	SACTOM Voice Available	The SDU does not announce SATCOM Voice availability when there is no signal or connectivity.	
4.4.7	SATCOM Standby Mode	The SDU properly indicates the communication status while in standby mode.	
4.4.9	Selective Calling	The SDU indicates that a new cockpit voice circuit has been established.	
4.4.11	SATCOM Voice Alert	The SDU properly indicates that a high priority calls are being detected.	
4.4.13	SATCOM Select "Auto" Mode	The SDU performs the proper handover request on the crosstalk bus in a dual SATCOM configuration.	
4.4.15	Crosstalk Protocol	The SDU performs the proper communication over the crosstalk bus in a dual SATCOM configuration.	
4.4.17	High/Low Data Bus Speed	SDU uses proper 429 protocol for both high and low speeds.	

End to End			
4.5.1	Uplink Messages	All uplink messages transfer to the CMU/MU in the proper format.	P
4.5.3	Multi-block Uplink Messages	All multi-block messages transfer through the CMU/MU and to/from the ground end system in the proper format.	P
4.5.5	Iridium Burst Size	Uplink messages are not delayed, regardless of time interval or message size.	P
4.5.7	ATS Messages	The SDU processes ATS messages over iridium CERTUS.	P
4.5.9	Downlink Messages	All downlink messages transfer to the ground end system in the proper format.	P
4.5.11	Downlink Message Queue	Downlink message queue is sent correctly after an extended satellite disconnect.	P
4.5.13	Downlink Retransmissions	Downlink messages are retransmitted properly if an acknowledgement is not received from the ground.	
4.5.15	Downlink Retransmissions Counter	Downlink messages are retransmitted the correct number of times at the correct interval when acknowledgements are not received from the ground.	
4.5.17	Simultaneous Uplink/Downlink Transmissions	The avionics receives uplinks and transmits downlink simultaneously without delaying or losing messages.	P
4.5.19	CERTUS Voice Mode	The SDU supports simultaneous use of voice and ACARS operation.	
4.5.21	CERTUS Data Mode	The SDU supports simultaneous use of ACARS and non-ACARS data operation.	
4.5.23	Simultaneous CERTUS Voice & Data Mode	The SDU supports simultaneous use of ACARS, Voice, and non-ACARS data operation.	
4.5.25	Mismatched Tail	The avionics do not process messages addressed to another aircraft tail number.	
4.5.27	Message Source	All ACARS messages are routed through the CMU/MU. The SDU should not generate ACARS messages.	P
4.5.29	GES Queue Timer	The avionics do not acknowledge any ACARS messages (over Iridium) older than 300 seconds.	

Stress/Hardness			
4.6.1	Integrated Stress	The CMU/MU and the SDU remained stable and did not show any strange behavior during stress testing.	P
4.6.5	Integrated Hardness	The CMU/MU and the SDU remained stable and did not show any strange behavior during hardness testing.	P
4.6.9	Uplink/Downlink Performance	The scored uplink success was at least 98%.	P

ARINC AQP SCORECARD
TEST RESULTS/DATA

TEST_ID 25.019

Airline: [REDACTED]

Code: [REDACTED]

AQP Phase: 3

<input type="checkbox"/> VDLM0 (POA) Tested	<input type="checkbox"/> Classic Aero Satcom Tested	<input type="checkbox"/> AOIP (ACARS Over IP) Tested
<input type="checkbox"/> VDLM0 (POA) Capable	<input type="checkbox"/> Classic Aero Satcom Capable	<input type="checkbox"/> AOIP (ACARS Over IP) Capable
<input type="checkbox"/> VDLMA (POA) Tested	<input type="checkbox"/> SB-S (Swift Broadband Safety) Tested	<input type="checkbox"/> HFDL Tested
<input type="checkbox"/> VDLMA (POA) Capable	<input type="checkbox"/> SB-S (Swift Broadband Safety) Capable	<input type="checkbox"/> HFDL Capable
<input type="checkbox"/> VDLM2 (AOA) Tested	<input type="checkbox"/> SB-S 2 (Enhanced SB-S) Tested	<input type="checkbox"/> HF NEXT Tested
<input type="checkbox"/> VDLM2 (AOA) Capable	<input type="checkbox"/> SB-S 2 (Enhanced SB-S) Capable	<input type="checkbox"/> HF NEXT Capable
<input type="checkbox"/> VDLM2 (ATN) Tested	<input type="checkbox"/> Iridium (Block 1) Tested	<input type="checkbox"/> OTHER Tested
<input type="checkbox"/> VDLM2 (ATN) Capable	<input type="checkbox"/> Iridium (Block 1) Capable	<input type="checkbox"/> OTHER Capable
<input type="checkbox"/> VDLMF Tested	<input checked="" type="checkbox"/> Iridium CERTUS Tested	
<input type="checkbox"/> VDLMF Capable	<input checked="" type="checkbox"/> Iridium CERTUS Capable	

Test Engineers' Initials: [REDACTED]

AQP Type: [REDACTED] Test

Reference: [REDACTED]

Test/Evaluation

Test Dates: From: 4/28/2025 To: 5/2/2025

Tested Configuration:

Manufacturer	Spec	Model	Part #
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]			

Applicable Aircraft: [REDACTED]

VHF Status: [REDACTED] HF NEXT Status: [REDACTED] SATCOM Status: [REDACTED] IRIDIUM Cert Status: Pass [REDACTED]

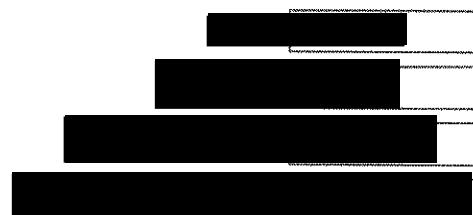
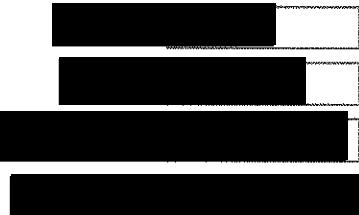
Letter Sent: [REDACTED] HFDL Status: [REDACTED] SBS Status: [REDACTED] IRIDIUM Status: [REDACTED]

Notes: OTHER Media Status: [REDACTED] SBS2 Status: [REDACTED] ACARS Over IP Status: [REDACTED]

IRIDIUM HARDWARE

IRIDIUM AQP Status: Pass

IRIDIUM SATELLITE DATA UNIT



BCX MANUFACTURER

BCX MODEL

BCX FW #

CH # CH TPE

COMMENTS:





TEST ID: 25.019

PHASE 3 AQP TEST RESULTS

<input type="checkbox"/> VHF TESTED?	<input type="checkbox"/> HF TESTED?	<input type="checkbox"/> SATCOM TESTED?	<input type="checkbox"/> IRIDIUM TESTED?
<input type="checkbox"/> VHF CAPABLE?	<input type="checkbox"/> HF CAPABLE?	<input type="checkbox"/> SATCOM CAPABLE?	<input type="checkbox"/> IRIDIUM CAPABLE?
<input type="checkbox"/> VDLMA TESTED?	<input type="checkbox"/> AOA TESTED?	<input type="checkbox"/> ATN TESTED?	<input type="checkbox"/> VDLMF TESTED?
<input type="checkbox"/> VDLMA CAPABLE?	<input type="checkbox"/> AOA CAPABLE?	<input type="checkbox"/> ATN CAPABLE?	<input type="checkbox"/> VDLMF CAPABLE?
<input type="checkbox"/> SB-S TESTED?	<input type="checkbox"/> AoIP TESTED?	<input type="checkbox"/> SB-S 2.0 TESTED?	
<input type="checkbox"/> SB-S CAPABLE?	<input type="checkbox"/> AoIP CAPABLE?	<input type="checkbox"/> SB-S 2.0 CAPABLE?	

Airline/Customer: [REDACTED]

Initial/Retest:

Test Engineer: [REDACTED]

Test Dates:

From: 4/28/25

To: 5/2/25

TESTED CONFIGURATION

Unit	Manufacturer + Model	Hardware Part #	Serial #	Software Part #
[REDACTED]	[REDACTED]	[REDACTED]		

Additional CMU SOFTWARE PART NUMBERS:

[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

Applicable Aircraft: _____

Notes: _____

Appendix A**Iridium CERTUS AQP Data Sheet**

Section	Description	Requirement	Result
Multi-media			
4.1.1	Preferred Media	CMU/MU uses VHF as preferred media and only Iridium/Inmarsat/HFDL when responding to an Iridium/Inmarsat/HFDL uplink.	
4.1.3	Simultaneous Media	CMU/MU always attempts to complete on the medium where the message was originated.	
4.1.5	VHF to Iridium/Inmarsat/HF	The avionics restarted failed VHF transmissions on Iridium/Inmarsat/HF media and alerts the crew of the VHF NOCOMM conditions.	
4.1.7	Iridium/Inmarsat/HF to VHF	The avionics monitors the available VHF frequencies and attempts to reestablish the VHF medium. (Label Q0, SA, etc.).	
4.1.9	VHF Voice to Iridium	Avionics sends downlinks via Iridium when in VHF voice mode.	
4.1.11	Automatic Link Establishment	MU automatically sends a Q0 downlink followed by an SA via Iridium whenever the Iridium unit logs on. This may be an SA ES if the MU thinks it is connected to SATCOM. Same as VHF and HF.	P
4.1.13	UBI/DBI Handling	The MU correctly maintains separate and independent UBI/DBI's for the VHF, HF, and Iridium links.	
SDU Configuration and Installation			
4.2.1	ORT Contents	All required ORT contents are available, and settings SDU settings/features are identified.	
4.2.3	Dual SATCOM ORT Settings	Dual SATCOM ORT settings are available and Dual SATCOM configuration is identified.	
4.2.5	ORT Data Loading	The ORT is able to be loaded to the SDU via data loader or other means.	P
Dual SATCOM			
4.3.1	Dual Power-up Sequence	SDUs determine their settings correctly upon power-up and handle mode settings and parity conflicts appropriately.	

4.3.3	Dual Independent	General dual SATCOM operating principles are being followed, and there is minimal or no interaction between the two SDU systems.	
4.3.5	Dual Cold Standby	General dual SATCOM operating principles are being followed, and the SDU operates correctly in cold standby mode.	
4.3.7	Dual Warm Standby	General dual SATCOM operating principles are being followed, and the SDU operates correctly in warm standby mode.	
4.3.9	Dual Hot Standby	General dual SATCOM operating principles are being followed, and the SDU operates correctly in hot standby mode.	
4.3.11	Dual Cooperative	General dual SATCOM operating principles are being followed, and the SDU operates correctly in dual cooperative mode.	

429 Data Bus

4.4.1	Subsystem Identifier Word	The SDU properly identifies itself to the CMU/MU as an Iridium CERTUS unit.	P
4.4.3	SATCOM Available	The SDU does not announce SATCOM availability when there is no signal.	P
4.4.5	SACTOM Voice Available	The SDU does not announce SATCOM Voice availability when there is no signal or connectivity.	
4.4.7	SATCOM Standby Mode	The SDU properly indicates the communication status while in standby mode.	
4.4.9	Selective Calling	The SDU indicates that a new cockpit voice circuit has been established.	
4.4.11	SATCOM Voice Alert	The SDU properly indicates that a high priority calls are being detected.	
4.4.13	SATCOM Select "Auto" Mode	The SDU performs the proper handover request on the crosstalk bus in a dual SATCOM configuration.	
4.4.15	Crosstalk Protocol	The SDU performs the proper communication over the crosstalk bus in a dual SATCOM configuration.	
4.4.17	High/Low Data Bus Speed	SDU uses proper 429 protocol for both high and low speeds.	

End to End			
4.5.1	Uplink Messages	All uplink messages transfer to the CMU/MU in the proper format.	P
4.5.3	Multi-block Uplink Messages	All multi-block messages transfer through the CMU/MU and to/from the ground end system in the proper format.	P
4.5.5	Iridium Burst Size	Uplink messages are not delayed, regardless of time interval or message size.	P
4.5.7	ATS Messages	The SDU processes ATS messages over iridium CERTUS.	P
4.5.9	Downlink Messages	All downlink messages transfer to the ground end system in the proper format.	P
4.5.11	Downlink Message Queue	Downlink message queue is sent correctly after an extended satellite disconnect.	P
4.5.13	Downlink Retransmissions	Downlink messages are retransmitted properly if an acknowledgement is not received from the ground.	
4.5.15	Downlink Retransmissions Counter	Downlink messages are retransmitted the correct number of times at the correct interval when acknowledgements are not received from the ground.	
4.5.17	Simultaneous Uplink/Downlink Transmissions	The avionics receives uplinks and transmits downlink simultaneously without delaying or losing messages.	P
4.5.19	CERTUS Voice Mode	The SDU supports simultaneous use of voice and ACARS operation.	
4.5.21	CERTUS Data Mode	The SDU supports simultaneous use of ACARS and non-ACARS data operation.	
4.5.23	Simultaneous CERTUS Voice & Data Mode	The SDU supports simultaneous use of ACARS, Voice, and non-ACARS data operation.	
4.5.25	Mismatched Tail	The avionics do not process messages addressed to another aircraft tail number.	
4.5.27	Message Source	All ACARS messages are routed through the CMU/MU. The SDU should not generate ACARS messages.	P
4.5.29	GES Queue Timer	The avionics do not acknowledge any ACARS messages (over Iridium) older than 300 seconds.	

Stress/Hardness			
4.6.1	Integrated Stress	The CMU/MU and the SDU remained stable and did not show any strange behavior during stress testing.	P
4.6.5	Integrated Hardness	The CMU/MU and the SDU remained stable and did not show any strange behavior during hardness testing.	P
4.6.9	Uplink/Downlink Performance	The scored uplink success was at least 98%.	P

ARINC AQP SCORECARD
TEST RESULTS/DATA

TEST_ID 25.036

Airline: [REDACTED]

Code: [REDACTED]

AQP Phase: 3

<input type="checkbox"/> VDLM0 (POA) Tested	<input checked="" type="checkbox"/> Classic Aero Satcom Tested	<input type="checkbox"/> AOIP (ACARS Over IP) Tested
<input type="checkbox"/> VDLM0 (POA) Capable	<input checked="" type="checkbox"/> Classic Aero Satcom Capable	<input type="checkbox"/> AOIP (ACARS Over IP) Capable
<input type="checkbox"/> VDLMA (POA) Tested	<input type="checkbox"/> SB-S (Swift Broadband Safety) Tested	<input checked="" type="checkbox"/> HFDL Tested
<input type="checkbox"/> VDLMA (POA) Capable	<input type="checkbox"/> SB-S (Swift Broadband Safety) Capable	<input checked="" type="checkbox"/> HFDL Capable
<input checked="" type="checkbox"/> VDLM2 (AOA) Tested	<input type="checkbox"/> SB-S 2 (Enhanced SB-S) Tested	<input type="checkbox"/> HF NEXT Tested
<input checked="" type="checkbox"/> VDLM2 (AOA) Capable	<input type="checkbox"/> SB-S 2 (Enhanced SB-S) Capable	<input type="checkbox"/> HF NEXT Capable
<input checked="" type="checkbox"/> VDLM2 (ATN) Tested	<input type="checkbox"/> Iridium (Block 1) Tested	<input type="checkbox"/> OTHER Tested
<input checked="" type="checkbox"/> VDLM2 (ATN) Capable	<input type="checkbox"/> Iridium (Block 1) Capable	<input type="checkbox"/> OTHER Capable
<input checked="" type="checkbox"/> VDLMF Tested	<input type="checkbox"/> Iridium CERTUS Tested	
<input checked="" type="checkbox"/> VDLMF Capable	<input type="checkbox"/> Iridium CERTUS Capable	

Test Engineers' Initials: [REDACTED]

AQP Type: Test

Reference: [REDACTED]

Test/Evaluation

Test Dates: From: 9/15/2025 To: 9/26/2025

Tested Configuration:

Manufacturer	Spec	Model	Part #
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[REDACTED]

[REDACTED]

OTHER: [REDACTED]

MU SOFTWARE PART NUMBERS

[REDACTED]

[REDACTED]

[REDACTED]

Applicable Aircraft: [REDACTED]

VHF Status: Pass

HF NEXT Status: [REDACTED]

SATCOM Status: [REDACTED]

IRIDIUM Cert Status: [REDACTED]

Letter Sent: [REDACTED]

HFDL Status: [REDACTED]

SBS Status: [REDACTED]

IRIDIUM Status: [REDACTED]

Notes: [REDACTED]

OTHER Media Status: [REDACTED]

SBS2 Status: [REDACTED]

ACARS Over IP Status: [REDACTED]

CMU HARDWARE

CMU AQP Status: [REDACTED]

CMU Type: [REDACTED]

Service Functional Capability Level: [REDACTED]

AEEC Spec: [REDACTED]

HW_Revision

VDL Multi Frequency

Co Channel Compliant

Multi Bearer SATCOM

OTHER

[REDACTED]

MU SOFTWARE PART NUMBERS

[REDACTED]

Comments:

VHF HARDWARE

VHF AQP Status: Pass

Core SW Part Number: [REDACTED]

Other S/W Type S/W Part Number

Comments: